

**IN THE CLAIMS:**

Claim 1 (cancelled)  
Claim 2 (cancelled)  
Claim 3 (cancelled)  
Claim 4 (cancelled)  
Claim 5 (cancelled)  
Claim 6 (cancelled)  
Claim 7 (cancelled)  
Claim 8 (cancelled)  
Claim 9 (cancelled)  
Claim 10 (cancelled)  
Claim 11 (cancelled)  
Claim 12 (cancelled)  
Claim 13 (cancelled)  
Claim 14 (cancelled)  
Claim 15 (cancelled)  
Claim 16 (cancelled)  
Claim 17 (cancelled)  
Claim 18 (cancelled)  
Claim 19 (cancelled)  
Claim 20 (cancelled)  
Claim 21 (cancelled)  
Claim 22 (cancelled)

## Claim 23 (currently amended)

A heat exchanger comprising, in combination,  
a plurality of panels of thermoplastic material having dispersed air-filled cavities, each of said panels having two opposed broad surfaces and at [lest] least one edge, each of said broad surfaces having a greater surface area than said edge,

selected ones of said panels having at least one indentation in at least one of said broad surfaces, said indentation forming a gas flow passage cavity,

other of said panels each having at least one gas flow conduit structure forming at least one gas flow conduit,

said selected ones of said panels being interleaved with said others of said panels in a predetermined sequence,

said panels being assembled with said broad surfaces of said sheets joined together so that said gas flow cavity in each of said selected sheets forms a gas flow passageway with one of said broad surfaces of an adjoining one of said other panels.

## 24. (currently amended)

A heat-exchanger as in Claim 23 in which each of said gas flow cavities includes a mid-section and two end sections, the gas flow passage provided in each of said end sections

extending away from said mid-section [of] at a substantial angle.

25. (original)

A heat-exchanger as in Claim 23 in which said edges of said panels are aligned with one another and fused together to form at least one solid outside wall for said heat exchanger.

26. (original)

A heat-exchanger as in Claim 23 in which the edges of the ends of said gas flow passages are fused together with said gas flow passages open.

27. (original)

A heat-exchanger as in Claim 23 in which at least said other panels each comprise a plurality of elongated tubes secured together to form said panel.

28. (original)

A heat-exchanger as in Claim 23 in which said panels are selected from the group consisting of expanded plastic panels and panels formed of elongated plastic tubes.

29. (original)

A heat-exchanger as in Claim 23 including indentations in both of said broad surfaces of each of said selected ones of said panels to form gas flow cavities in each of said surfaces.

30. (original)

A heat-exchanger as in Claim 23 in which said gas flow conduit structure in each of said other panels is selected from the group consisting of a plurality of side-by-side thermoplastic tubes and at least one indentation forming a gas flow cavity in at least one of said broad surfaces.

31. (original)

A heat-exchanger as in Claim 23 in which said gas flow passageways in said selected sheets and gas flow conduits in said other sheets are positioned to conduct gases in substantially opposite directions over a substantial portion of their lengths.